

ABSTRACT OF THE DISCLOSURE

A reference voltage generating circuit generates reference voltage and outputs the thus generated reference voltage from an output terminal thereof.

5 A voltage generating circuit lowers external power supply voltage according to the reference voltage supplied from the reference voltage generating circuit to output internal power supply voltage from an output terminal thereof. A transistor has a current path
10 connected between a terminal to which the external power supply voltage is supplied and the output terminal of the voltage generating circuit or between the terminal to which the external power supply voltage is supplied and the output terminal of the reference
15 voltage generating circuit and a gate supplied with constant voltage and has negative threshold voltage.